

## ABSTRACT

A system accessing and transmitting different data frames in a digital transmission network for accessing and transmitting different data frames, comprising: at least a user-network interface (UNI), which is used to couple with the user's network; at least a network-network interface (NNI), which is used to couple with said digital transmission network to transfer data; a data converting device, which is coupled with said UNIs, data formats between said NNIs to convert data formats between said UNIs, data formats between NNIs, or data formats between said NNIs and said UNIs; wherein said data converting device comprises a virtual interface device, said virtual interface device comprises: at least two device interfaces, a virtual interface processing unit, a rule database, a control interface unit and an inter-device interface, so as to improve access ability of the device.